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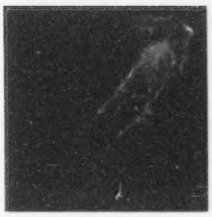

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Monocytes inhibited for RhoA can still crawl forwards, but they fail to pick up their back ends. The trailing tails are packed with integrin adhesions. See page 147.

Cover design based on a concept by Leslie Thomas, Heidelberg, Germany.

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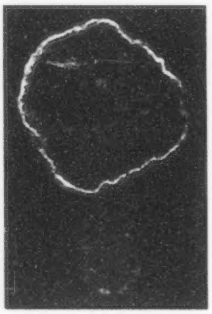
The colocalization of connexin 43 (green) with p120 catenin (red) has implications for motility in cardiac neural crest cells. See page 61.



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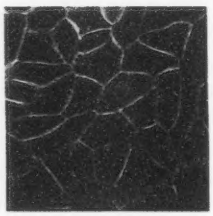

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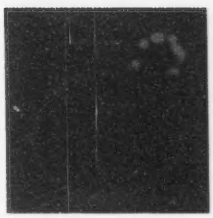

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A protein interaction map for cell polarity in yeast reveals new connections between cellular processes, and new candidate yeast polarity factors such as Ypr171w (localization pictured in overlay). See page 549.

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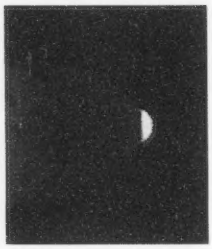
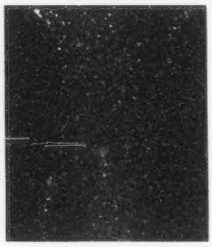


Barentsz colocalizes with *oskar* mRNA (see above) and is necessary for *oskar* mRNA's polar localization. See page 511.



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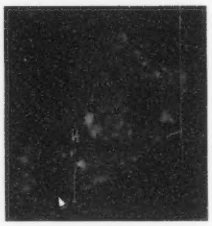
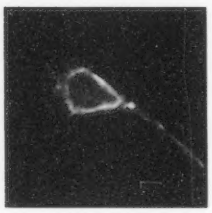


Centromeric chromatin (on a minichromosome indicated by the arrow) is functional despite replicating neither early (red) or late (green) in S phase. See page 683.



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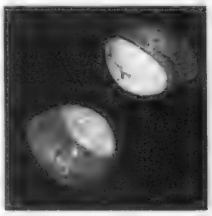

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Eps8 (green) activates Rac in ruffles. See page 1031.

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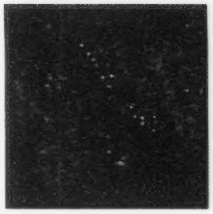

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A nuclear pore component (green) colocalizes with kinetochore antigens stained with CREST serum (red). See page 1147.

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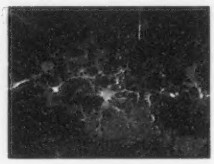

The lack of erbB2 signaling causes a failure in the terminal differentiation of oligodendrocyte progenitors (red) to form mature oligodendrocytes (green), and therefore a failure in the ensheathment of axons. See page 1245.

Speckles of polymerized tubulin (top) move over time (top to bottom), whereas speckles of the kinesin motor Eg5 (bottom) stay stationary relative to the spindle. This may provide evidence for a spindle matrix. See pages 1102 and 1125.

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